

Claims

- Sub B1 } 1. A method of operating a wireless device, comprising:
- receiving positional information from a plurality of users in an ad hoc network;
- 5 selecting a first portion of the plurality of users to be within a pro active region based upon said positional information; and
- maintaining information on the users selected to be within the pro active region.
2. A method, as set forth in claim 1, wherein receiving said positional information further comprises receiving information on the position, heading, and speed of the plurality of users in the ad hoc network.
- 10 3. A method, as set forth in claim 2, wherein selecting the first portion of the plurality of users further comprises selecting the users that are relatively stationary to be within the pro active region.
- 15 4. A method, as set forth in claim 2, further comprising determining the position, heading and speed of the wireless device, and wherein selecting the first portion of the plurality of users further comprises selecting the users that have a position, heading and speed similar to that of the wireless device to be within the pro active region.

5. A method, as set forth in claim 1, further comprising calculating a heading and speed of the plurality of users in the ad hoc network.

6. A method, as set forth in claim 5, wherein selecting the first portion of the plurality of users further comprises selecting the users that are relatively stationary to be within the pro active region.

7. A method, as set forth in claim 5, further comprising determining the position, heading and speed of the wireless device, and wherein selecting the first portion of the plurality of users further comprises selecting the users that have a position, heading and speed similar to that of the wireless device to be within the pro active region.

8. A method, as set forth in claim 1, further comprising accessing topographical information on a region in which the wireless device is currently located, and wherein selecting the first portion of the plurality of users further comprises selecting the users based on the positional and topographical information.

9. A method, as set forth in claim 8, wherein selecting the first portion of the plurality of users further comprises selecting the users based on the absence of topographical features that could interfere with communications between the wireless device and the selected users.

10. A method, as set forth in claim 1, further comprising accessing a radio frequency map of a region in which the wireless device is currently located, and wherein selecting the first portion of the plurality of users further comprises selecting the users based on the positional information and the radio frequency map.

11. A method, as set forth in claim 10, wherein selecting the first portion of the plurality of users based on the positional information and the radio frequency map further comprises selecting the users located within relatively high strength regions of the radio frequency map.

12. A wireless device for use in an ad hoc network, comprising:

a transceiver capable of receiving positional information from a plurality of remote users;

a global positioning system capable of generating positional information regarding the wireless device; and

a controller capable of selecting a first portion of the plurality of remote users to be within a pro active region based upon said positional information, and maintaining information on the remote users selected to be within the pro active region.

13. A wireless device, as set forth in claim 12, wherein said transceiver is capable of receiving positional information that includes information on the position, heading, and speed of the plurality of remote users in the ad hoc network.

14. A wireless device, as set forth in claim 13, wherein the controller is capable of selecting the first portion of the plurality of remote users by selecting the users that are relatively stationary to be within the pro active region.

15. A wireless device, as set forth in claim 13, wherein the controller is capable of selecting the first portion of the plurality of remote users by selecting the remote users that have a position, heading and speed similar to that of the wireless device to be within the pro active region.

16. A wireless device, as set forth in claim 12, wherein the controller is capable of calculating a heading and speed of the plurality of remote users in the ad hoc network.

17. A wireless device, as set forth in claim 16, wherein the controller is capable of selecting the first portion of the plurality of remote users by selecting the users that are relatively stationary to be within the pro active region.

18. A wireless device, as set forth in claim 16, wherein the controller is capable of selecting the first portion of the plurality of remote users by selecting the remote users that have a position, heading and speed similar to that of the wireless device to be within the pro active region.

19. A wireless device, as set forth in claim 12, wherein the controller is capable of accessing topographical information on a region in which the wireless device is currently located, and selecting the first portion of the plurality of remote users based on the positional and topographical information.

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B1 20. A wireless device, as set forth in claim 19, wherein the controller is capable of selecting the first portion of the plurality of remote users based on the absence of topographical features that could interfere with communications between the wireless device and the selected remote users.

5 21. A wireless device, as set forth in claim 12, wherein the controller is capable of accessing a radio frequency map of a region in which the wireless device is currently located, and selecting the first portion of the plurality of users based on the positional information and the radio frequency map.

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